

CLAIMS

WHAT IS CLAIMED IS:

- 1 1. A submersible vehicle comprising:
- 2 a) a hull having a front end, back end, top side, bottom side,
- 3 outside surface and inside surface, said inside surface defining a hull
- 4 cavity;
- 5 b) a plurality of inlets contained within the front end of the
- 6 hull, whereby the inlets allow water or other liquid to flow into the hull
- 7 cavity;
- 8 c) a plurality of outlets contained within the back end of the
- 9 hull, whereby the outlets allow water or other liquid to flow out of the
- 10 hull cavity;
- 11 d) a propeller and motor assembly disposed within the hull
- 12 cavity, said propeller having at least one propeller blade having a
- 13 leading edge and a trailing edge;
- 14 e) a housing attached to the bottom side of the hull, said
- 15 housing containing a front compartment and a back compartment, said

16 front compartment containing a buoyant material and said back
17 compartment containing an energy source used to power the motor;

18 f) a pair of fins integral with and extending horizontally
19 away from said hull;

20 g) a pair of hand holds integral with the bottom surface of
21 said pair of fins; and

22 h) a pair of tracking fins attached to opposite sides of the
23 bottom side of the hull, each tracking fin extending outwardly and
24 downwardly away from the hull.

1 2. The submersible vehicle of claim 1 in which the plurality of
2 inlets includes two approximately horizontal and parallel top inlet slots
3 located within the top side of the hull.

1 3. The submersible vehicle of claim 1 in which the plurality of
2 inlets includes seven approximately vertical and parallel bottom inlet slots
3 located within the bottom side of the hull.

1 4. The submersible vehicle of claim 1 in which the plurality of
2 inlets includes six inlet portholes located within the bottom side of the hull,
3 wherein three of the portholes, located on one side of the hull, are

4 approximately vertically aligned and evenly spaced, and the other three
5 portholes, located on the other side of the hull, are approximately vertically
6 aligned and evenly spaced.

1 5. The submersible vehicle of claim 1 in which the plurality of
2 outlets comprises four approximately horizontal and parallel back outlet slots.

1 6. The submersible vehicle of claim 1 in which the front end of the
2 hull has a rounded bullet shape.

1 7. The submersible vehicle of claim 1 in which the back end of the
2 hull comprises a circularly shaped opening, with a circularly shaped disk
3 disposed within the opening, said disk containing the plurality of outlets.

1 8. The submersible vehicle of claim 7 in which the plurality of
2 outlets comprises four approximately horizontal and parallel back outlet slots.

1 9. The submersible vehicle of claim 1 in which the propeller and
2 motor assembly is disposed within the hull cavity such that the propeller is
3 adjacent to the hull's front end and the motor is adjacent to the hull's back
4 end.

1 10. The submersible vehicle of claim 9 in which the leading edge of
2 the at least one propeller blade is adjacent to the motor and the trailing edge

3 of the at least one propeller blade is adjacent to the hull's front end, whereby
4 the propeller blade's leading edge is aft of the trailing edge.

1 11. The submersible vehicle of claim 1 in which the hull is
2 approximately symmetrical about a horizontal hull axis.

1 12. The submersible vehicle of claim 11 in which the propeller axis
2 and motor axis are in axial alignment and are approximately colinear with the
3 hull axis.

1 13. The submersible vehicle of claim 12 in which an elongated
2 encasement having a front and back end, depends radially from the hull's
3 inside surface, said encasement defining a rectangularly shaped encasement
4 cavity surrounding the propeller and motor assembly.

1 14. The submersible vehicle of claim 13 in which the front end of
2 the encasement tapers from the encasement cavity to the inside surface of
3 the hull, forming an encasement tapered section.

1 15. The submersible vehicle of claim 14 in which the propeller is
2 adjacent to said encasement tapered section.

1 16. The submersible vehicle of claim 1 in which the housing's
2 energy source is a battery in electrical connection with the motor.

1 17. The submersible vehicle of claim 1 in which the buoyant
2 material is polystyrene plastic.

1 18. The submersible vehicle of claim 1 in which the hull is made of
2 high density polyethylene.

1 19. The submersible vehicle of claim 13 in which the elongated
2 encasement is made of high density plastic coated foam.